DOMINION EXPLORERS INC.
DURHAM MINES DIVISION
PRINCE WILLIAM • NEW BRUNSWICK E0H 1S0

Open File Report 91-1

GOLD ASSESSMENT AT THE LAKE GEORGE MINE

YORK COUNTY, NEW BRUNSWICK

by

Charlie Morrissy
Dominion Explorers Inc.

Canada-New Brunswick Mineral Development Agreement

Entente Canada-Nouveau-Brunswick L'Exploitation Minérale

Natural Resources and Energy New Brunswick

Ressources Naturelles et Énergie Nouveau-Brunswick

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Énergie, Mines et Ressources Canada

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Province of New Brunswick

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Minister of Natural Resources and Energy

Hon. Edmond P. Blanchard
Minister of State for Mines

January, 1991

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GOLD ASSESSMENT AT THE LAKE GEORGE MINE

YORK COUNTY, NEW BRUNSWICK

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Copies available by contacting:

Mineral Resources
Department of Natural Resources and Energy
P.O. Box 6000, Fredericton
New Brunswick E3B 5H1

January, 1991

Report No.: Open File Report 91-1

Author: Charlie Morrissy
Dominion Explorers Inc.

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Abstract

Drill hole 81-6, from the 1981 drill campaign at Lake George, encountered gold values that averaged 0.22 oz/T Au over a 7.0 foot width. This intersection occurs 100 feet in the hangingwall of the main stibnite vein and is located approximately at coordinates 26 + 50 E - 46 + 50 N.

In 1987 a raise was driven from the back of stope #1026 to reach the drill intersection. Sampling via this raise confirmed the presence of gold in an altered, hydrothermal breccia pipe. The area is at the same elevation and is accessible from the 850 Level West Drift which is some 85 feet to the south of the gold zone.

This zone has been opened up 130 feet along strike and by 75 feet of stub crosscuts. Chip samples and test holes from the brecciated zone have indicated 0.086 oz/T Au over a continuous length of 86 feet with an average width of 9.7 feet.

Walls have been slashed to expose the entire width of the structure and preparations are underway to resample the whole zone to better evaluate the gold tenor of the sill. The zone is open on strike and both above and below the 850 level.

Résumé

Le trou de forage 81-6, de la campagne de forage de 1981 au Lac George, a indiqué des valeurs d'or dont la moyenne se situe autour de 0,22 oz/tonne sur une largeur de 7 pieds. Cette intersection se retrouve 100 pieds dans le toit du principal filon de stibine et se situe approximativement aux coordonnées 26+50 E, 46+50 N.

En 1987 une cheminée fut creusée à partir de l'arrière du gradin #1026 afin d'atteindre l'intersection de forage. L'échantillonnage à partir de cette cheminée a confirmé la présence d'or dans une colonne bréchiforme d'altération hydrothermale. Cette région est à la même élévation et est accessible à partir du niveau 850 de la galerie ouest qui se trouve à quelques 85 pieds au sud de la zone aurifère.

Cette zone a été exposée sur 130 pieds le long des couches et par 75 pieds de recoupes transversales des piliers. Des fragments de roche et des forages d'essai dans la zone bréchiforme ont indiqué 0,086 oz Au/tonne sur une longueur continue de 86 pieds et une largeur moyenne de 9,7 pieds.

Les parois ont été taillardées afin d'exposer la pleine longueur de la structure et des préparatifs sont en cours pour rééchantillonner toute la zone afin de mieux évaluer la teneur en or du filon-couche. La zone est ouverte dans la direction du filon ainsi qu'au-dessus et au-dessous du niveau 850.

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(IN POCKET)

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GOLD ASSESSMENT AT THE LAKE GEORGE MINE
YORK COUNTY, NEW BRUNSWICK

1.0 OBJECTIVE:

To drift with the intention of assessing the width and length of auriferous sulphides in fractured zones separate and north of the main antimony vein.

2.0 SCOPE:

To assist in the evaluation of the gold zone. Some 306 feet of drift - subdrift - raise development along with 956 tons of slash to expose the entire structure was completed. The development from the area totals 2,500 tons.

3.0 PROJECT METHODOLOGY:

Access to the area was gained by a drift heading. Drifting on the main zone and stub crosscuts on oblique structures, with slashes opened the area for inspection. Sampling, assaying and geological mapping of the gold bearing horizon advanced with the headings. Test holes along the walls further aided in outlining the structure.

Resampling the entire zone using a stoper is underway to better evaluate the tenor of the exposed back.

4.0 RESULTS AND DISCUSSION:

1. 130 feet of the gold bearing structure opened along strike.

2. 75 feet of crosscut opened to evaluate cross structures.

3. Sampling has confirmed the presence of gold in an altered, hydrothermal breccia pipe.

4. Values in the zone run from ND to 0.54 oz./T Au.

5. Chip samples and test holes from the brecciated zone have indicated 0.086 oz./T Au over a continuous length of 86 feet and an average width of 9.7 feet.

5.0 CONCLUSION AND RECOMMENDATIONS:

1. Resampling of structure with a stoper across the back to give a larger and more representive channel sample will help to better evaluate the gold values in the zone.

2. Advance and sample the gold bearing breccia zone on strike both to the east and to the west to help establish the strike length and ore potential of the zone.

3. Raise up on the zone to extend its up dip potential and check on the continuity of the structure.

APPENDICES

CUSTOM LABORATORIES LIMITED
Assayers and Anal: :al Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

Identification: Dominion Explorers Inc.

March 2, 1988

Description: Coarse Pulp (2)

Sample No.	Lab. No.	Weight	Au oz/ton
7604			.009
7978			.205
7979			.008
7980			.029
7981			.002
7982			.039
7983			.009
7984			.114
7985			.038
7986			.005

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Anal: :al Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

Identification: Dominion Explorers Inc

March 2, 1988

Description: Fine Pulp Assayed as Received

Sample No.	Lab. No.	Weight	Au oz/ton
7987			.123
7988			.007
7990			.007
7991			.080
7992			.008
7993			.003
7994			.001
7998			.008

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
Telephone: 546-4779
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4

Identification: Dominion Explorers Inc.

March 1, 1988

Description: Coarse Pulp

Sample No.		Lab. No.	Weight	Au oz.ton
5601	A			.051
	B			.064
	C			.050
	D			.054
5602	A			.022
	B			.020
	C			.018
	D			.026
5603	A			.028
	B			.017
	C			.020
	D			.019
5604	A			.027
	B			.036
	C			.035
	D			.037
5605	A			.022
	B			.021
	C			.023
	D			.017

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
Telephone: 546-4779
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4

-2-

Identification: Dominion Explorers Inc.

March 1, 1988

Description: Coarse Pulp

Sample No.		Lab. No.	Weight	Au oz/ton
5606	A			.001
	B			.001
	C			.002
	D			.008
5607	A			.005
	B			.003
	C			.004
	D			.003
5608	A			.034
	B			.034
	C			.039
	D			.023
5609	A			nd
	B			.002
	C			.002
	D			.003
5610	A			.032
	B			.031
	C			.029
	D			.035

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

- 3 -

Identification: Dominion Explorers Inc.

March 1, 1988

Description: Coarse Pulp

Sample No.		Lab. No.	Weight	Au oz/ton
5611	A			.018
	B			.023
	C			.021
	D			.026
5612	A			.001
	B			nd
	C			nd
	D			ND
5613	A			.013
	B			.019
	C			.021
	D			.018
5614	A			.063
	B			.058
	C			.051
	D			.050
5615	A			.006
	B			.009
	C			.007
	D			.007

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED -1- Telephone: 546-6779

Assayers and Analyt J Chemists

P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4

Identification: Dominion Explorers Inc. December 15, 1987

Description: Pulp Assayed as Received

15

Sample No.	Lab. No.	Weight	Au oz/ton	
7901			.002	
7902			.001	
7903			ND	
7904			.002	
7905			.001	
7906			.051	
7907			.009	
7908			.258	U.G. GOLD ZONE
7909			.019	
7910			.288	
7911			.135	
7912			.160	
7913			.125	
7914			.170	
7915			.294	
7803			ND	112.5 - 115
7804			ND	124 - 128.5
7805			ND	155 - 157.5
7806			ND	157.5 - 160
7807			ND	160 - 163.3

Checked by: _____ Analyst: _____

Receipt Stubs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

- 1 -

Identification: Dominion Explorers Inc.

December 17, 1987

Description: Fine Pulp assayed as received

4

Sample No.	Lab. No.	Weight	Au oz/t	850'								
TG-3 - 0-4'			ND	U.G Gold								
4-8			.002	"		U.G GOLD ZONE						
TG-4 - 0-4'			.001	"								
4-8			.001	"								
XX - 84			.001	87-23								
85			.006	"								
86			ND	"								
87			.007	"								
88			.008	"								
89			.019	"								
90			ND	"								
91			ND	"								
92			ND	"								
93			.003	"								
94			.020	"								
95			.001	87-21	450-451.5							
96			.002	"	460-461.5							
97			.004	"	687 687.5							
98			ND	"	722.5-723.5							
99			ND	87-24								

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

- 3 -

Identification: Dominion Explorers Inc.

January6, 1988

Description: Coarse Pulp

Sample No.	Lab. No.	Weight	oz/t Au	87-2-		
7891			.032	"	1174.5 - 1176	
7892			.006	"	1176 - 1178.5	
7935			.069			
7936			.408			
7937			.126			
7938			.001			HG GOLD ZONE
7939			.002			850 LEVEL
7940			.116			
7941			.041			
7942			.060			

Checked by: _____ Analyst: _____

ASSAYERS (ONTARIO) LIMITED
33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. D0-24/7279 Date: January 7, 1988

Received Jan 6/87 10 Samples of Pulps

Submitted by Dominion Explorers Inc. Att'n: Mr. C. Morrissy

Sample No.	Au oz/ton
7943	.032
7944	.003
7945	.002
7946	.007
7947	.00[illegible]
7948	.002
7949	.087(.086)
7950	.17(.16)
7951	.017
7952	.023

UG GOLD ZONE
850 LEVEL

ASSAYERS (ONTARIO) LIMITED

Per _____

J. van Engelen Mgr.

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

Identification: Dominion Explorers

Description: Fine Pulp

January 13,1988

(2C)

Sample No.		Lab. No.	Weight	oz/t Au
TG -5	0-2			.001
	2-4			.001
	4-6			.001
	6-8			.001
TG -6	0-2			.003
	2-4			ND
	4-6			.041
	6-8			.004
TG - 7	0-2			.106
	2-4			.191
	4-6			.019
	6-8			.005
TG-8 -	0-2			ND
	2-4			.001
	4-6			.002
	6-8			ND
TG - 9	0-2			ND
	2-4			.039
	4-6			.001
	6-8			ND

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

Identification: Dominion Explorers

Description: Fine Pulp

January13, 1988

(26)

Sample No.	Lab. No.	Weight	oz/t Au
TG - 10 0-2			.120
2-4			.011
4-6			.005
6-8			.006
TG - 11 0-2			.002
2-4			.001
4-6			.001
6-8			.270
TG- 12 0-2			ND
2-4			.368
4-6			.273
6-8			.300
TG- 13 0-2			.080
2-4			.035
4-6			.010
6-8			.172
TG- 14 0-2			.025
2-4			.003
4-6			.087
6-8			.009

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Ana' 'cal Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

- 3 -

Identification: Dominion Explorers

Description: Fine Pulp

January 13, 1988

(21)

Sample No.	Lab. No.	Weight	oz/t Au
TG- 15 0-2			.001
2-4			.001
4-6			ND
6-8			ND
7953			.002
7954			ND
7955			.001
7956			.001
7957			.002
7958			ND
7959			.023
7960			.002
7961			.001
7962			.029
7963			ND
7964			ND
7965			ND
7966			.001
7967			.001
7968			.001
7969			.001

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

Identification: Dominion Explorers Inc.

Description: Fine Pulp Assayed as Received

February 2, 1988

(2)

Sample No.	Lab. No.	Weight	Au oz/ton
7970			ND
7971			.001
7972			.060
7973			.044
7974			.059
7975			.117
7976			.081
7977			.150

Checked by: _____

Analyst: _____
Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists - 3 -
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

Identification: Dominion Explorers Inc.

March 14, 1988

Description: Pulp Assayed as received.

Sample No.	Lab. No.	Weight	oz/t Au
5619			.031
5620			.011
5621			.033
5622			.002
5623			.062
5624			.106
5625			.002
5626			.001
5627			.343
5628			.192
5629			.215
5630			.195
5631			.009
5632			.003
5633			.080
5634			.053
5635			.011
5636			.084
5637			.002
5638			ND

Checked by: _____

Analyst: Robert Stairs

CUSTOM LABORATORIES LIMITED
Assayers and Analytical Chemists
P. O. Box 520 920 Bridge Street, Bathurst, N. B. E2A 3Z4
Telephone: 546-4779

- 4 -

Identification: Dominion Explorers Inc.

Description: Pulp Assayed as received.

March 14, 1988

Sample No.	Lab. No.	Weight	oz/t Au
5639			ND
5640			.009
5641			.023
5642			ND
7995			.040
7996			.192
7997			.012
7998			.003
7999			.003
8000			.034

Checked by: _____

Analyst: _____
Robert Stairs

ASSAYERS (ONTARIO) LIMITED
33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-1510/5811 Date: January 19, 1987

Received Jan. 14/87 6 Samples of Pulps

Submitted by Durham Resources Inc. Att'n: Mr. C. Morrissy

Sample No.	Au ppb	oz/ton
3505	5921	.17
3506	469	
3507	42	
3508	552	
3509	361	
3510	32	

ASSAYERS (ONTARIO) LIMITED

Per _____

J. van Engelen Mgr.

ASSAYERS (ONTARIO) LIMITED
33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-1516/5824 Date: January 21, 1987

Received Jan. 16/87 15 Samples of Pulps

Submitted by Durham Resources Inc. Att'n: Mr. C. Morrissy

Sample No.	Au ppb	oz/ton
3530	9302	.27
3531	>10000	.32
3532	>10000	.34
3541	2993	.084
3542	342	
3543	4254	.13
3544	967	.030
3545	>10000	.43
3546	8242	.27
3547	352	
3548	2777	.088
3549	>10000	.29
3550	>10000	.44
3551	8037	.23
3552	764	

ASSAYERS (ONTARIO) LIMITED

Per _____

J. van Engelen Mgr.

ASSAYERS (ONTARIO) LIMITED
33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-1528/02/5880 Date: February 5, 1987

Received Jan. 27/87 49 Samples of Course Pulps

Submitted by Durham Resources Inc. Att'n: Mr. C. Morrissy

Sample No.	Au ppb
TG-2 14-16'	92
16-18'	136
18-20'	<5
20-22'	34
22-24'	54
24-26'	478
26-28'	25
28-30'	34
TG-2 30-32'	8

ASSAYERS (ONTARIO) LIMITED

Per _____

J. van Engelen Mgr.

ASSAYERS (ONTARIO) LIMITED
33 CHAUNCEY AVENUE TORONTO, ONTARIO M8Z 2Z2 · TELEPHONE (416) 239-3527

Certificate of Analysis

Certificate No. MI-1528/5580 Date: February 5, 1987

Received 49 Samples of Course Pulps

Submitted by Durham Resources Inc. Att'n: Mr. C. Morrissy

Sample No.	Au ppb	Sample No.	Au ppb
3590	324	TG-1 8-10'	<5
3591	998	10-12'	448
3592	249	12-14'	54
3593	99	14-16'	<5
3594	596	16-18'	<5
3595	.55(.54) oz/ton	18-20'	34
3596	324	20-22'	36
3597	<5	22-24'	<5
3598	477	24-26'	<5
3599	193	26-28'	61
3600	1432(1368)	28-30'	17
3601	1828(1828)	30-32'	54
3602	4805(4333)	TG-1 32-34'	126
3603	6422(6156)	TG-2 0-2'	44
3604	2489(2093)	2-4'	721
3605	533	4-6'	37
TG-1 0-2'	889	6-8'	<5
2-4'	160	8-10'	420
4-6'	37	10-12'	1952(2592)
TG-1 6-8'	<5	TG-2 12-14'	731

ASSAYERS (ONTARIO) LIMITED

Per _____

J. van Engelen Mgr.

MAPS
NOT
FILMED

CARTES
OMISES